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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/811,234	03/03/1997	HITOSHI SUGIMOTO	35.C10048-CI	9898
5514	7590 09/05/2003		٠	-
FITZPATRICK CELLA HARPER & SCINTO			EXAMINER	
• • • • • • • • • • • • • • • • • • • •	30 ROCKEFELLER PLAZA NEW YORK, NY 10112		NGUYEN, LAM S	
			ART UNIT	PAPER NUMBER
	•		2853	
			DATE MAILED: 09/05/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
,	08/811,234	SUGIMOTO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Craig A Hallacher	2853				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 27 f	March 2002 .					
2a)⊠ This action is FINAL. 2b)☐ Th	is action is non-final.					
3) Since this application is in condition for allowated in accordance with the practice under						
Disposition of Claims						
4) \boxtimes Claim(s) $1,4-14,17-22,25-30,33-35,37,39,41-53,55-61 and 63-89 is/are pending in the application.$						
4a) Of the above claim(s) is/are withdraw	wn from consideration.					
5) Claim(s) <u>1,4-14,17-22,25-30,33-35,37,39,41-5</u>	3 <u>,55-61 and 63-84</u> is/are allowed					
6)⊠ Claim(s) <u>85-89</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acception		miner				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority document	s have been received.					
2. Certified copies of the priority documents have been received in Application No. <u>08/248,513</u> .						
Copies of the certified copies of the prior application from the International Bu See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for domesti	·					
a) The translation of the foreign language pro	·					
15) Acknowledgment is made of a claim for domest						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				
S. Patent and Trademark Office						

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DETAILED ACTION

1. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 85-89 are rejected under 35 U.S.C. 103(a) as being unpatentable over Terasawa (4,739,847) in view of Kanome et al. (4,952,942).

Terasawa discloses an ink jet recording unit including an ink cartridge (30), attachable and detachable to an ink jet recording head (1), the cartridge including multiple chambers (32) for holding inks of different colors. However, Terasawa does not disclose that the ink jet recording head is provided integrally with different ink discharge port groups corresponding to inks different in coloring material density for forming an ink dot on the recording material. Kanome et al. discloses an ink jet recording apparatus including an integral orifice plate (2) with different discharge groups (M¹, M²) corresponding to inks differing in coloring material density.

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Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to eject inks of different coloring material densities from a single orifice plate, as taught by Kanome et al, in the printer and cartridge of Terasawa, in order to print an image having a full color range with an abundant gradation characteristic (col. 2, lines 11-27).

Allowable Subject Matter

4. Claims 1, 4-14, 17-22, 25-30, 33-35, 37, 39, 41-53, 55-61 and 63-84 are allowed for the reasons cited in the previous office actions.

Response to Arguments

5. Applicant's arguments with respect to claims85-89 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Craig A Hallacher whose telephone number is (703)308-0516.

The examiner can normally be reached on M-F (8:30-6:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russ Adams can be reached on (703)308-2847. The fax phone numbers for the organization where this application or proceeding is assigned are (703)305-3432 for regular communications and (703)305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-3431.

C.A.H. June 19, 2003 CRAIG HALLACHER